

# Latex Modified Concrete Placement Inspection

## Inspector's Checklist

- ❑ Determination of areas needing removal of unsound concrete. (Sound with Hammer and Chain, mark with paint, verify all unsound Concrete is removed)
- ❑ Verification of proper surface preparation.(1/4" on initial scarification, all exposed surfaces including reinforcing bars shall be sandblasted and kept clean until placement of Latex overlay)
- ❑ Testing of approved raw materials.(Latex Admixture, Cement, water and Aggregates must meet the requirements of the contract)
- ❑ A check of proper ingredient proportioning and mixer operation.(Verify calibration of trucks in compliance with attached guidelines)
- ❑ Testing of mixed material.(If trial batch is mixed and during placement of overlay)
- ❑ A check of proper installation of forms.(Forms for full depth areas can be suspended from reinforcing if less than 0.5 m<sup>2</sup>, if larger they must be supported by superstructure or shored from below –refer to contract specifications)
- ❑ Conformance to line and grade.(Verify the gradeline has been approved and bulkheads are set to match finished grade; Steel extrusions for deck joints should set –2mm to –5mm from finished grade)
- ❑ Support Rails for finishing machine must be set to grade in compliance with specifications and anchorage must be approved by Project Manager
- ❑ Proper spacing of and adequate cover on reinforcement. (Verify bars have 20mm clearance around and minimum splice length is provided =0.30m)
- ❑ Monitor weather conditions prior to/and during placement. (Critical to quality finished product, problems with finishing and surface sealing may be encountered when rate of evaporation exceeds 0.49 kg/m<sup>2</sup>/h or 0.10 lbs/ft<sup>2</sup>/h)
- ❑ Verify placement of Mortar for Bonding.(All surfaces must receive a thorough coating of mortar, dispose of coarse aggregates and don't allow fluids to settle low spots)
- ❑ Adequate consolidation during placement.( Hand vibrators should be used for areas deeper than 75mm and along edges/ bulkheads)

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- ❑ Proper finishing techniques. (Minimize hand finishing, use wood floats and Fresno only)
- ❑ Suitable surface texturing.(Burlap drag, light brooming and machine grooving as per specifications)
- ❑ Proper curing techniques.( Double layer of clean wet burlap, placed as soon as possible, 15-20minutes,maintain wet cure for 48 hours)
- ❑ Record keeping. (Daily reports, Calibrations, Concrete reports etc.)